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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/890,126	02/20/2002	Michael Mccormack		5978	
25223	7590 09/18/2003				
WHITEFORD, TAYLOR & PRESTON, LLP ATTN: GREGORY M STONE SEVEN SAINT PAUL STREET			EXAM	EXAMINER	
			KOBERT, RUSSELL MARC		
BALTIMORE, MD 21202-1626			ART UNIT	PAPER NUMBER	
			2829		
			DATE MAII ED: 09/18/2003	DATE MAILED: 09/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Casiminer Art Unit	•	Application No.	Applicant(s)			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. The MAILING DATE OF THIS COMMUNICATION. If the period for reply specifies above is less than thirty (30) stays, a siphy within the admittery minimum of hinty (30) caps will be considered timely. If the period for reply specifies above is less than thirty (30) stays, a siphy within the admittery within the set of words and the set of the communication. If the period for reply specifies above is less than thirty (30) stays, a siphy within the admittery minimum of hinty (30) caps will be considered timely. If the period for reply specifies above is less than thirty (30) stays, a siphy within the set of wentiled period to the specifies of location and set of the maining date of his communication of him (30) caps will be considered timely. If the period for reply specifies above is less than thirty (30) stays, and the specification is considered timely. If the period for reply specifies above is less than thirty (30) stays, and the specification is considered timely. If the period for reply specifies above is less than thirty (30) stays will be considered timely. If the period for reply specifies above is less than thirty (30) stays will be considered timely. If the period time discussion is considered timely will be considered timely. If the period considered with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 19-32 is/are adjusted. Claim(s) 19-32 is/are allowed. Claim(s) 19-32 is/are allowed. Claim(s) 19-32 is/ard 33 is/are rejected. Claim(s) 22-23 and 23-33 is/are objected to by the Examiner. Did The drawing(s) filed on is/are. all accepted or bl objected to by the Examiner. If approved, conrected drawings are requ		09/890,126	MCCORMACK ET AL.			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions durine may be available under the provisions of 3 CFR 1.13(a). In coveret, however, may a reply be timely flead with 40 (%) \$405/115 from the presing date of the comment of 3 CFR 1.13(a). In coveret, however, may a reply be timely flead with 40 (%) \$405/115 from the presing date of the comment of 3 CFR 1.13(a). In coveret, however, may a reply be timely flead with 40 (%) \$405/115 from the presing date of the comment of 1 CFR 1.13(a). In covered, may a reply be timely flead with 40 (%) \$405/115 from the presing date of the communication. False to kepty within the set or extended period for reply wift, by statute cause the application to become 4804/CEC/05 (3 Liu S. (§ 1.13). Parallel be the poly within the set or extended period for reply wift, by statute cause the application to become 4804/CEC/05 (3 Liu S. (§ 1.13). Responsive to communication(s) filled on 27 July 2001. 29 This action is FillAL. 20 This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x perie Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 19-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 19-2124 and 33 is/are rejected. 7) Claim(s) 19-2124 and 33 is/are rejected. 7) Claim(s) 22.23 and 25-32 is/are objected to. 8) Claim(s) 30 (1 claims) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on	Office Action Summary	Examiner	Art Unit			
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be available under the provision of 3 CPR 1.13(b), in no event, however, may a reply be timely field after 50.6 (b) MCN1154 from the mailing date of this communication. It the provide or large specification or provided and the communication. It the provided reply specification is not provided by the communication. Fallure to reply within the set or extended period for reply will, by duting the set (b) (b) MCN1154 from the mailing date of this communication, even if timely 100, days will be considered planethy. Fallure to reply within the set or extended period for reply will, by statute, cause the application to become ARANDONED (d) U.S.C. § 133), Any reply researed by the official extent and remove minimal and the first mailing date of this communication, even if timely field, may replace any considered planeth term adjustment. Zee 37 CPR 1.704(b). Status 1) Responsive to communication(s) filled on 27 July 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 19-32 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) 19-32 is/are allowed. 5) Claim(s) 19-32 is/are allowed. 6) Claim(s) 19-21 24 and 33 is/are rejected. 7) Claim(s) 19-21 24 and 33 is/are objected to. 8) Claim(s) 19-21 24 and 33 is/are objected to. 8) Claim(s) 19-21 24 and 25-32 is/are objected to. 9) The drawing(s) filled on 19-21 24 and 25-32 is/are objected to by the Examiner. Application Papers 9) The drawing(s) filed on 19-21 24 24 25-22 25-22 25-25						
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a) \[All \] b) \[\] Some * c) \[\] None of: 1 \[\] Certified copies of the priority documents have been received. 2 \[\] Certified copies of the priority documents have been received in Application No. \[\] 3. \[\] Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) \[\] Acknowledgment is made of a claim for domestic priority under 35 U.S.C. \§ 119(e) (to a provisional application). a) \[\] The translation of the foreign language provisional application has been received. 15) \[\] Acknowledgment is made of a claim for domestic priority under 35 U.S.C. \§§ 120 and/or 121. Attachment(s) 1) \[\] Notice of References Cited (PTO-892) 2) \[\] Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) \[\] Interview Summary (PTO-413) Paper No(s). 5) \[\] Notice of Informal Patent Application (PTO-152) 3) \[\] Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1002 6) \[\] Other:	Priority under 35 U.S.C. §§ 119 and 120					
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1. The title of the invention is not descriptive. A new title is required that is clearly

indicative of the invention to which the claims are directed. A good example of such a

title, although not necessarily related to this specific case, could be "Method and

Apparatus for Passive Optical Characterization of Semiconductor Substrates Subjected

to High Energy (MEV) Ion Implantation Using High-Injection Surface Photovoltage."

2. Claim 33 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. Claim 33 recites the limitation "the mains cables" in line 2.

There is insufficient antecedent basis for this limitation in the claim.

3. Applicant is advised that should claim 19 be found allowable, claim 24 will be

objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two

claims in an application are duplicates or else are so close in content that they both

cover the same thing, despite a slight difference in wording, it is proper after allowing

one claim to object to the other as being a substantial duplicate of the allowed claim.

See MPEP § 706.03(k).

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

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5. Claims 19, 21 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated

by Yauch et al (3626291).

Yauch et al anticipates (Figure 2) a current probe for measuring current in a

conductor or an electrical energy meter including sensing means comprising:

A plurality of relatively fixed coils (25, 26) which define, and are substantially

equally spaced apart along, a notational closed path surrounding the conductor (17), the

coils being connected in series in such manner that an unobstructed gap (space

between mating caps 61; see Figure 4) is left between one pair of adjacent coils to

enable the conductor (17) to be introduced inside the closed path; as recited in claims

19 and 24.

As to claim 21, having the closed path in a circular shape is shown in Figure 2,

formed by coil 22.

6. Claims 19, 21 and 24 are rejected under 35 U.S.C. 102(b) as being clearly

anticipated by Rich (2345430); (see Figures 7 and 8).

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

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8. This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

9. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yauch et

al (3626291) as applied to claim 19 above, and further in view of Baudart (5442280).

As to claim 20, Baudart shows the use of Rogowski coils in a current measuring

device.

It would have been obvious to one having ordinary skill in the art at the time the

invention was made to have combined the Apparatuses of Baudart with that of Yauch et

al to make the claimed invention because a coil of this kind, having perfect axial

symmetry, is relatively insensitive to temperature variations thereby improving stability

in current measurement. Moreover, both Baudart and Yauch et al show circular coil

structures that are used to measure current in a conductor that passes through a central

portion of the circular pattern.

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10. The following is a statement of reasons for the indication of allowable subject

matter:

Claims 22, 23 and 25-32 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

As to claim 22, the added limitation of having the coils arranged in two concentric

loops of coils has not been found.

As to claim 25, the added limitation of having an insulating housing for securing

two main cables having a conductive core surrounded by a sheath of insulating material

wherein the housing further includes respective electrical contact means for piercing the

insulating sheath of each cable to make contact with the core has not been found.

It is further noted that the examiner's reasons are understood to be predicated

upon consideration of each of the claims as a whole, and not upon any specific

elements of the claims.

11. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Baurand et al (4709205), Fernandes (4799005), Haug et al (5012218) and

Wakatsuki et al show current or energy or power measurement devices having a coil or

coils geometrically positioned about an electrical conductor.

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12. A shortened statutory period for response to this action is set to expire three month(s) from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kobert whose telephone number is (703) 308-5222.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Russell M. Kobert Patent Examiner Group Art Unit 2829 September 5, 2003

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